

# Air Quality Event Summary

July 30, 2004

Typical warm summer weather led to unhealthy air quality on Friday, July 30 as temperatures reached the high 80s across the state and skies were clear for a good part of the day. Light south-southwesterly winds were present statewide and a noticeable sea breeze began to affect the coastline in early afternoon. Particulate matter concentrations were elevated early in the day as transported PM<sub>2.5</sub> was already present in the northeast, and they continued to rise into the evening. Ozone levels increased rapidly in the afternoon, particularly along the seacoast, where a strong sea breeze was becoming established. Though ozone levels inland began to drop by mid afternoon in connection with higher wind speeds, seacoast ozone remained high under the onshore flow. The monitors at Portsmouth and Rye (Odiorne State Park) recorded levels in the “unhealthy for sensitive people” range, while most inland monitors barely reached moderate ozone levels.

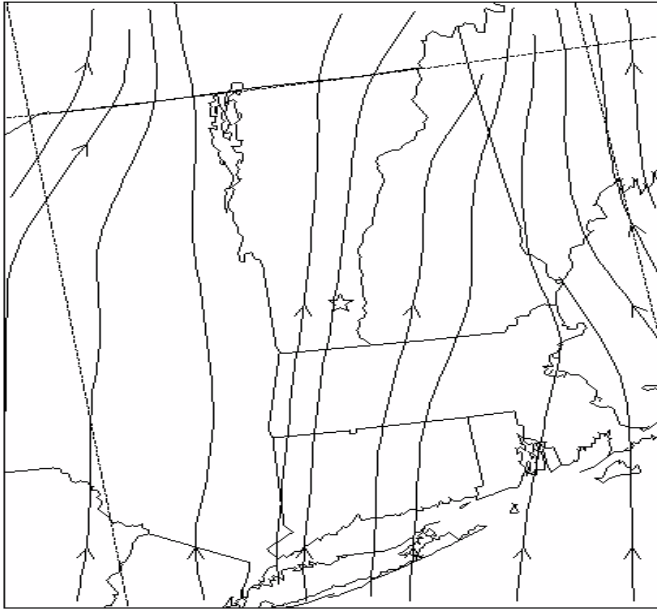
The tables below show the highest ozone and PM<sub>2.5</sub> concentrations for the July 30 event. Further below are afternoon streamlines for the day, along with maximum 8-hour ozone levels. The streamline analysis from 3 PM clearly shows the sea breeze effect, with wind direction contours seen curving inland along the New Hampshire and Maine coasts.

## Maximum Ozone and PM<sub>2.5</sub> Concentrations

July 30, 2004

Ozone			Particle Pollution (PM 2.4)		
monitor	1-hr avg.	8-hr avg.	monitor	1-hr avg.	24-hr avg.
	max ppb	max ppb		max ug3	max ug3
Manchester	81	71	Manchester	32	22
Keene	85	69	Portsmouth	37	28
Odiorne	114	93	Haverhill	30	14
Claremont	82	72	Miller	24	15
Nashua	92	80	Camp Dodge	18	3
Concord	81	72			
Portsmouth	116	98			
Miller	89	78			
Laconia	64	59			
Mt Washington	70	64			
Haverhill	69	57			
Camp Dodge	71	53			
Pittsburg	55	46			
1-hr exceedance is > 124ppb			no 1-hour standard		
8-hr exceedance is > 84 ppb			24-hr exceedance is > 65.5 ug/m3		

**Streamlines for July 30, 2004**



**Maximum 8-Hour Ozone for July 30, 2004**

